

being located on the stator, and the stator being comprised of iron, the iron being used for a magnetic circuit for the coil

35. (Twice amended) Motor according to claim 21, in which the stator has longitudinal outer sides, and the core of the control arrangement is substantially parallel to one of the outer sides of the stator.

36. (Twice amended) Motor according to claim 35, in which the core of the control arrangement is offset inwardly from the outer side.

Remarks

The Examiner's reconsideration of the application is again requested in view of the amendments above and comments which follow.

Taking the matters raised by the Examiner in turn, the objection in numbered paragraph 2 on page 2 of the Office Action to claims 21 - 26 and 22 is noted. Claim 21 has been amended as requested, but reconsideration of the objections to claims 22 and 26 is urged. Those claims are quite correct the way that they are cast. For example, claim 22 states that the core is part of the stator. That is proper English, just as one would say, "The chair is part of the decor of the room". Similar comments apply to claim 26. Placing an article before the word "part" would be improper.

The Examiner has rejected claims 35 - 36 under 35 U.S.C. § 112 in numbered paragraph 4 of the Office Action because the claims were indefinite. It is submitted that the claims, as

amended, ought to be quite definite and understandable. Claim 35 has been amended to define the outer sides of the stator, and it is clear that the core of the control arrangement is that which is parallel to one of the outer sides. Claim 36 has been amended to indicate that the core of the control arrangement is that part which is offset inwardly from the outer side. It is believed that these amendments, have amended the claims so that they are fully in accordance with 35 U.S.C. § 112.

In numbered paragraph 5 of the Office Action, the Examiner has rejected a number of the claims of the application, including independent claim 21, as being anticipated by newly-cited McCarty U.S. Patent number 4,656,379. Reconsideration is requested.

McCarty, as the Examiner notes, included a d.c. control coil 40. The control coil, however, is an annular arrangement having no core. As clearly shown in the McCarty patent, the control coil 40 is located in a bobbin midway in the stator 22, and there is no core formed for the winding of the control coil 40.

Comparing twice amended claim 21 with McCarty, the following differences are quite apparent:

- it is not a motor, it is a generator used for supplying a voltage over a wide range
- the control arrangement does not have any "intermediate circuit"
- the coil is not loaded by d.c. current intended for flowing to the motor coils

An "intermediate circuit" is a term of art and is a typically used phrase for the d.c.- bus between the rectifier 4 and the inverter 7 shown in Figure 1 of the present application. The

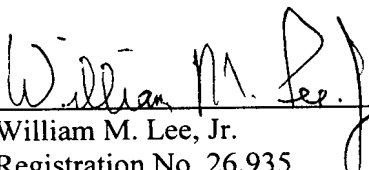
intermediate circuit is at the position 6 in Figure 1. The coil of McCarty is loaded by a control current, not by a motor current as in the present application. Further, the coil in McCarty is used for control purposes, something which is not remotely similar to the use in the present invention. In the present invention, it is desired that the coil 9 not interfere with the magnetic circuit of the stator coils. That is why the flux barriers 20, 21 are employed.

Therefore, it is submitted that the invention of the present application, as claimed, distinguishes from McCarty, and is allowable thereover.

The remaining claims depend from claim 21. While the indicated allowability of claims 24 and 25 is gratefully acknowledged, and it is believed that claims 35 and 36 were similarly allowable (after dealing with the 35 U.S.C. § 112 issue), it is submitted that all claims are now in condition for allowance and the Examiner's further and favorable reconsideration in that regard is urged.

June 6, 2002

Respectfully submitted,


William M. Lee, Jr.
Registration No. 26,935
Lee, Mann, Smith, McWilliams,
Sweeney & Ohlson
P.O. Box 2786
Chicago, Illinois 60690-2786
(312) 368-6620
(312) 368-0034 (fax)



COPY OF PAPERS
ORIGINALLY FILED

Version with Markings To Show Changes Made

21. (Twice amended) [Electric] An electric motor comprising a stator having a bore in which a rotor is located, and having a motor control arrangement connected to the motor, the control arrangement having at least one coil with a core, the coil being located in an intermediate circuit of the control arrangement and being loaded by d.c. current of the motor, the core of the coil being located on the stator, and the stator being comprised of iron, the iron being used for a magnetic circuit for the coil

35. (Twice amended) Motor according to claim 21, in which the stator has longitudinal outer sides, and the core of the control arrangement is substantially parallel to [an outer side] one of the outer sides of the stator.

36. (Twice amended) Motor according to claim 35, in which the core of the control arrangement is offset inwardly from the outer side.

RECEIVED
JUN 19 2002
TECHNOLOGY CENTER 2800